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## Occupational Employment and Wages in Portland-Vancouver-Hillsboro, May 2014

Workers in the Portland-Vancouver-Hillsboro Metropolitan Statistical Area had an average (mean) hourly wage of \$24.38 in May 2014, about 7 percent above the nationwide average of \$22.71, according to the U.S. Bureau of Labor Statistics. Regional Commissioner Richard J. Holden noted that, after testing for statistical significance, wages in the local area were higher than their respective national averages in 12 of the 22 major occupational groups, including healthcare practitioners and technical; construction and extraction; and protective service. Three groups had significantly lower wages than their respective national averages: management; business and financial operations; and arts, design, entertainment, sports, and media.

When compared to the nationwide distribution, local employment was more highly concentrated in 9 of the 22 occupational groups, including management; architecture and engineering; and computer and mathematical. Conversely, 10 groups had employment shares significantly below their national representation, including protective service; building and grounds cleaning and maintenance; and healthcare support. (See [table A](#) and [box note](#) at end of release.)

**Table A. Occupational employment and wages by major occupational group, United States and the Portland-Vancouver-Hillsboro Metropolitan Statistical Area, and measures of statistical significance, May 2014**

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Portland	United States	Portland	Percent difference <sup>(1)</sup>
Total, all occupations.....	100.0%	100.0%	\$22.71	\$24.38*	7
Management.....	5.0	6.4*	54.08	50.29*	-7
Business and financial operations.....	5.1	5.4*	34.81	32.81*	-6
Computer and mathematical.....	2.8	3.5*	40.37	39.06	-3
Architecture and engineering.....	1.8	3.0*	39.19	38.44	-2
Life, physical, and social science.....	0.8	0.9*	33.69	32.67	-3
Community and social services.....	1.4	1.8*	21.79	21.40	-2
Legal.....	0.8	0.7	48.61	47.25	-3
Education, training, and library.....	6.2	5.9*	25.10	25.96	3
Arts, design, entertainment, sports, and media.....	1.3	1.6*	26.82	24.96*	-7
Healthcare practitioner and technical.....	5.8	5.3*	36.54	43.52*	19
Healthcare support.....	2.9	2.3*	13.86	16.58*	20
Protective service.....	2.4	1.6*	21.14	24.28*	15
Food preparation and serving related.....	9.1	8.9*	10.57	11.35*	7
Building and grounds cleaning and maintenance.....	3.2	2.6*	12.68	13.66*	8
Personal care and service.....	3.1	3.3*	12.01	13.75*	14
Sales and related.....	10.5	10.2*	18.59	19.59*	5

**Table A. Occupational employment and wages by major occupational group, United States and the Portland-Vancouver-Hillsboro Metropolitan Statistical Area, and measures of statistical significance, May 2014 - Continued**

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Portland	United States	Portland	Percent difference <sup>(1)</sup>
Office and administrative support.....	16.0	15.6*	17.08	18.13*	6
Farming, fishing, and forestry.....	0.3	0.3	12.09	13.88*	15
Construction and extraction.....	3.9	4.1*	22.40	25.64*	14
Installation, maintenance, and repair.....	3.9	3.4*	21.74	23.30*	7
Production.....	6.6	6.5	17.06	17.93*	5
Transportation and material moving.....	6.8	6.5*	16.57	17.03	3

<sup>(1)</sup> A positive percent difference measures how much the mean wage in Portland is above the national mean wage, while a negative difference reflects a lower wage.

\* The percent share of employment or mean hourly wage for this area is significantly different from the national average of all areas at the 90-percent confidence level.

One occupational group—architecture and engineering—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Portland-Vancouver-Hillsboro had 31,890 jobs in architecture and engineering, accounting for 3.0 percent of local area employment, significantly higher than the 1.8-percent share nationally. The average hourly wage for this occupational group locally was \$38.44, compared to the national wage of \$39.19.

Some of the largest detailed occupations within the architecture and engineering group included civil engineers (3,720), industrial engineers (3,290), and electrical and electronics engineering technicians (2,750). Among the higher paying jobs were electronics engineers, except computer, and industrial engineers, with mean hourly wages of \$50.29 and \$46.75, respectively. At the lower end of the wage scale were mechanical engineering technicians (\$23.01) and surveying and mapping technicians (\$24.12). (Detailed occupational data for architecture and engineering are presented in [table 1](#); for a complete listing of detailed occupations available go to [www.bls.gov/oes/2014/may/oes\\_38900.htm](http://www.bls.gov/oes/2014/may/oes_38900.htm).)

Location quotients allow us to explore the occupational make-up of a metropolitan area by comparing the composition of jobs in an area relative to the national average. (See [table 1](#).) For example, a location quotient of 2.0 indicates that an occupation accounts for twice the share of employment in the area than it does nationally. In the Portland-Vancouver-Hillsboro Metropolitan Statistical Area, above-average concentrations of employment were found in many of the occupations within the architecture and engineering group. For instance, electrical and electronics engineering technicians were employed at 2.6 times the national rate in Portland, and architects, except landscape and naval, at 1.9 times the U.S. average. On the other hand, civil engineering technicians had a location quotient of 1.0 in Portland, indicating that this particular occupation's local and national employment shares were similar.

These statistics are from the Occupational Employment Statistics (OES) survey, a federal-state cooperative program between BLS and State Workforce Agencies, in this case, the Oregon Employment Department.

### Note

A value that is statistically different from another does not necessarily mean that the difference has economic or practical significance. Statistical significance is concerned with the ability to make confident statements about a universe based on a sample. It is entirely possible that a large difference between two values is not significantly different statistically, while a small difference is, since both the size and heterogeneity of the sample affect the relative error of the data being tested.

### Technical Note

The Occupational Employment Statistics (OES) survey is a semiannual mail survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. Guam, Puerto Rico, and the Virgin Islands are also surveyed, but their data are not included in the national estimates. OES estimates are constructed from a sample of about 1.2 million establishments. Forms are mailed to approximately 200,000 sampled establishments in May and November each year. May 2014 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2014, November 2013, May 2013, November 2012, May 2012, and November 2011. The overall national response rate for the six panels is 74.3 percent based on establishments and 70.5 percent based on weighted sampled employment. The unweighted employment of sampled establishments across all six semiannual panels represents approximately 57.1 percent of total national employment. (Response rates are slightly lower for these estimates due to the federal shutdown in October 2013.) The sample in the Portland-Vancouver-Hillsboro Metropolitan Statistical Area included 7,300 establishments with a response rate of 73 percent. For more information about OES concepts and methodology, go to [www.bls.gov/news.release/ocwage.tn.htm](http://www.bls.gov/news.release/ocwage.tn.htm).

The OES survey provides estimates of employment and hourly and annual wages for wage and salary workers in 22 major occupational groups and 821 detailed occupations for the nation, states, metropolitan statistical areas, metropolitan divisions, and nonmetropolitan areas. In addition, employment and wage estimates for 94 minor groups and 458 broad occupations are available in the national data. OES data by state and metropolitan/nonmetropolitan area are available from [www.bls.gov/oes/current/oessrcst.htm](http://www.bls.gov/oes/current/oessrcst.htm) and [www.bls.gov/oes/current/oessrcma.htm](http://www.bls.gov/oes/current/oessrcma.htm), respectively.

The May 2014 OES estimates are based on the 2010 Standard Occupational Classification (SOC) system and the 2012 North American Industry Classification System (NAICS). Information about the 2010 SOC is available on the BLS website at [www.bls.gov/soc](http://www.bls.gov/soc) and information about the 2012 NAICS is available at [www.bls.gov/bls/naics.htm](http://www.bls.gov/bls/naics.htm).

### Area definitions

The substate area data published in this release reflect the standards and definitions established by the U.S. Office of Management and Budget.

The **Portland-Vancouver-Hillsboro, Ore. Metropolitan Statistical Area** includes Clackamas, Columbia, Multnomah, Washington, and Yamhill Counties of Oregon and Clark and Skamania Counties of Washington.

### Additional information

OES data are available on our regional web page at [www.bls.gov/regions/west](http://www.bls.gov/regions/west). Answers to frequently asked questions about the OES data are available at [www.bls.gov/oes/oes\\_ques.htm](http://www.bls.gov/oes/oes_ques.htm). Detailed technical information about the OES survey is available in our Survey Methods and Reliability Statement on the BLS website at [www.bls.gov/oes/2014/may/methods\\_statement.pdf](http://www.bls.gov/oes/2014/may/methods_statement.pdf).

Information in this release will be made available to sensory impaired individuals upon request . Voice phone: 202-691-5200; Federal Relay Service: 800-877-8339.

**Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Portland-Vancouver-Hillsboro Metropolitan Statistical Area, May 2014**

Occupation <sup>(1)</sup>	Employment		Mean wages	
	Level <sup>(2)</sup>	Location quotient <sup>(3)</sup>	Hourly	Annual <sup>(4)</sup>
Architecture and Engineering Occupations.....	31,890	1.7	\$38.44	\$79,960
Architects, Except Landscape and Naval.....	1,350	1.9	33.54	69,770
Landscape Architects.....	330	2.3	28.19	58,640
Cartographers and Photogrammetrists.....	420	4.6	30.60	63,650
Surveyors.....	330	1.0	34.15	71,030
Aerospace Engineers.....	80	0.2	38.87	80,840
Biomedical Engineers.....	230	1.5	46.55	96,820
Chemical Engineers.....	150	0.6	43.18	89,820
Civil Engineers.....	3,720	1.8	38.32	79,700
Electrical Engineers.....	1,500	1.1	42.95	89,350
Electronics Engineers, Except Computer.....	1,760	1.7	50.29	104,600
Environmental Engineers.....	530	1.3	40.19	83,600
Health and Safety Engineers, Except Mining Safety Engineers and Inspectors.....	170	0.9	38.92	80,960
Industrial Engineers.....	3,290	1.8	46.75	97,250
Materials Engineers.....	360	1.9	42.44	88,270
Mechanical Engineers.....	2,490	1.2	39.26	81,660
Engineers, All Other.....	1,840	1.9	45.95	95,570
Architectural and Civil Drafters.....	1,100	1.5	25.73	53,520
Electrical and Electronics Drafters.....	270	1.2	25.70	53,460
Mechanical Drafters.....	590	1.2	26.76	55,660
Drafters, All Other.....	300	2.7	28.85	60,000
Aerospace Engineering and Operations Technicians.....	<sup>(5)</sup>	<sup>(5)</sup>	29.72	61,810
Civil Engineering Technicians.....	580	1.0	28.78	59,870
Electrical and Electronics Engineering Technicians.....	2,750	2.6	28.98	60,290
Electro-Mechanical Technicians.....	<sup>(5)</sup>	<sup>(5)</sup>	26.53	55,190
Environmental Engineering Technicians.....	140	1.0	30.02	62,440
Mechanical Engineering Technicians.....	440	1.2	23.01	47,860
Engineering Technicians, Except Drafters, All Other.....	740	1.4	27.06	56,280
Surveying and Mapping Technicians.....	590	1.5	24.12	50,180

<sup>(1)</sup> For a complete listing of all detailed occupations in Portland-Vancouver-Hillsboro, OR-WA, see [www.bls.gov/oes/current/oes\\_38900.htm](http://www.bls.gov/oes/current/oes_38900.htm).

<sup>(2)</sup> Estimates for detailed occupations do not sum to the totals because the totals include occupations not shown separately. Estimates do not include self-employed workers.

<sup>(3)</sup> The location quotient is the ratio of the area concentration of occupational employment to the national average concentration. A location quotient greater than one indicates the occupation has a higher share of employment than average, and a location quotient less than one indicates the occupation is less prevalent in the area than average.

<sup>(4)</sup> Annual wages have been calculated by multiplying the hourly mean wage by a 'year-round, full-time' hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.

<sup>(5)</sup> Estimate not released.